

RECEIVED
CENTRAL FAX CENTERApplication Serial No. 10/573,536
Reply to office action of November 24, 2009

FEB 24 2010

PATENT
Docket: CU-4748**Amendments To The Claims**

The listing of claims presented below will replace all prior versions and listings of claims in the application.

Listing of claims:

1-31. (canceled).

32. (currently amended) A contents service providing system, the system comprising:

a processor and a memory, the memory having stored thereon:

an analyzing unit for analyzing conditions of a usage environment of a user terminal based on package metadata and determining contents matched with the conditions; and

a providing unit for providing the determined contents to the user terminal

without receiving a request from the user terminal and without any searching for the determined contents,

wherein the package metadata includes component metadata for describing attributes of the contents, relation metadata for describing temporal/spatial relation of the contents, and targeting condition metadata for describing the conditions, and

wherein the targeting condition metadata is capable of targeting the contents to the user terminal and the relation metadata enables to consume a variety of contents with the temporal/spatial relation in the user terminal.

33. (previously presented) The system as recited in claim 32, wherein the component metadata include:

Application Serial No. 10/573,536
Reply to office action of November 24, 2009

PATENT
Docket: CU-4748

image attribute metadata for describing image attributes of an image contents;
video attribute metadata for describing video attributes of a video contents; and
audio attribute metadata for describing audio attributes of an audio contents.

34. (previously presented) The system as recited in claim 33, wherein the image attributes include a vertical/horizontal size.

35. (previously presented) The system as recited in claim 33, wherein the video attributes include a coding format, and a vertical/horizontal size.

36. (previously presented) The system as recited in claim 33, wherein the audio attributes include a coding format, and channel information.

37. (previously presented) The system as recited in claim 33, wherein the component metadata includes media-related attributes having a file size.

38. (previously presented) The system as recited in claim 33, wherein the component metadata includes contents description metadata having a title, descriptive information (synopsis), and keywords of the contents.

39. (previously presented) The system as recited in claim 33, wherein the component metadata includes application program attributes metadata having application program classification information of an application program.

Application Serial No. 10/573,536
Reply to office action of November 24, 2009

PATENT
Docket: CU-4748

40. (previously presented) The system as recited in claim 32, wherein the relation metadata include:

temporal relation information for describing a temporal sequence of contents consumption; and

spatial relation information for describing relative locations of the contents consumption.

41. (previously presented) The system as recited in claim 40, wherein the temporal relation information includes MPEG-7 MDS TemporalRelation CS information.

42. (previously presented) The system as recited in claim 40, wherein the spatial relation information includes MPEG-7 MDS BaseRelation CS information.

43. (previously presented) The system as recited in claim 40, wherein the spatial relation information includes MPEG-7 MDS SpatialRelation CS information.

44. (previously presented) The system as recited in claim 32, wherein the targeting condition metadata include:

user condition information for describing user conditions of the user terminal;

terminal condition information for describing terminal conditions of the user terminal;

network condition information for describing network conditions connected with

Application Serial No. 10/573,536
Reply to office action of November 24, 2009

PATENT
Docket: CU-4748

the user terminal; and

natural environment information for describing natural environment conditions for consuming the contents in the user terminal.

45. (previously presented) The system as recited in claim 44, wherein the user condition information includes user information and visual/auditory difficulty information.

46. (previously presented) The system as recited in claim 44, wherein the terminal condition information includes codec information and device attributes information.

47. (previously presented) The system as recited in claim 44, wherein the network condition information includes network capability information.

48. (previously presented) The system as recited in claim 44, wherein the natural environment information includes location information and time information of the contents consumption.

49. (previously presented) The system as recited in claim 32, wherein the package metadata includes reference information including identification information for describing locations of the contents.

50. (currently amended) A method for generating package Package metadata ~~having a computer readable medium with computer readable program stored~~

Application Serial No. 10/573,536
Reply to office action of November 24, 2009

PATENT
Docket: CU-4748

~~thereon~~, the package-metadata method comprising:

providing a processor and a memory, the memory having stored thereon:

component metadata for describing attributes of contents;

relation metadata for describing the temporal/spatial relation of the contents; and

targeting condition metadata for describing conditions of a usage environment of the user terminal,

wherein the package metadata is used for analyzing the conditions of a usage environment of a user terminal to determine the contents matched with the conditions without receiving a request from the user terminal and without any searching for the matched contents,

wherein the targeting condition metadata is capable of targeting the contents to the user terminal and the relation metadata enables to consume a variety of contents with the temporal/spatial relation in the user terminal.

51. (currently amended) The system method as recited in claim 50, wherein the component metadata include:

image attribute metadata for describing image attributes of an image contents;

video attribute metadata for describing video attributes of a video contents; and

audio attribute metadata for describing audio attributes of an audio contents.

52. (currently amended) The Package-metadata method as recited in claim 51, wherein the image attributes include a vertical/horizontal size.

Application Serial No. 10/573,536
Reply to office action of November 24, 2009

PATENT
Docket: CU-4748

53. (currently amended) The ~~Package-metadata~~ method as recited in claim 51, wherein the video attributes include a coding format, and a vertical/horizontal size.
54. (currently amended) The ~~Package-metadata~~ method as recited in claim 51, wherein the audio attributes include a coding format, and channel information.
55. (currently amended) The ~~Package-metadata~~ method as recited in claim 51, wherein the component metadata includes media-related attributes having a file size.
56. (currently amended) The ~~Package-metadata~~ method as recited in claim 51, wherein the component metadata includes contents description metadata having a title, descriptive information (synopsis), and keywords of the contents.
57. (currently amended) The ~~Package-metadata~~ method as recited in claim 51, wherein the component metadata includes application program attributes metadata having application program classification information of an application program.
58. (currently amended) The ~~Package-metadata~~ method as recited in claim 50, wherein the relation metadata include:
- temporal relation information for describing a temporal sequence of contents consumption; and
 - spatial relation information for describing relative locations of the contents consumption.

Application Serial No. 10/573,536
Reply to office action of November 24, 2009

PATENT
Docket: CU-4748

59. (currently amended) The ~~Package-metadata~~ method as recited in claim 58, wherein the temporal relation information includes MPEG-7 MDS TemporalRelation CS information.
60. (currently amended) The ~~Package-metadata~~ method as recited in claim 58, wherein the spatial relation information includes MPEG-7 MDS BaseRelation CS information.
61. (currently amended) The ~~Package-metadata~~ method as recited in claim 58, wherein the spatial relation information includes MPEG-7 MDS SpatialRelation CS information.
62. (currently amended) The ~~Package-metadata~~ method as recited in claim 50, wherein the targeting condition metadata include:
- user condition information for describing user conditions of the user terminal;
 - terminal condition information for describing terminal conditions of the user terminal;
 - network condition information for describing network conditions connected with the user terminal; and
 - natural environment information for describing natural environment conditions for consuming the contents in the user terminal.

Application Serial No. 10/573,536
Reply to office action of November 24, 2009

PATENT
Docket: CU-4748

63. (currently amended) The ~~Package-metadata~~ method as recited in claim 62, wherein the user condition information includes user information and visual/auditory difficulty information.
64. (currently amended) The ~~Package-metadata~~ method as recited in claim 62, wherein the terminal condition information includes codec information and device attributes information.
65. (currently amended) The ~~Package-metadata~~ method as recited in claim 62, wherein the network condition information includes network capability information.
66. (currently amended) The ~~Package-metadata~~ method as recited in claim 62, wherein the natural environment information includes location information and time information of the contents consumption.
67. (currently amended) The ~~Package-metadata~~ method as recited in claim 50, wherein the package metadata includes reference information including identification information for describing locations of the contents.